

L 24257-66 EMT(1)/EWA(d) GW

ACC NR: AR6005263

SOURCE CODE: UR/0058/65/000/009/H052/H052

AUTHOR: Nemirova, E. K.

32
B

TITLE: Influence of the resonance effect on the number of observed meteors

SOURCE: Ref. zh. Fizika, Abs. 9Zh367

REF. SOURCE: Tr. Tomskogo in-ta radioelektron. i elektron. tekhn., v. 3, 1964, 157-162

TOPIC TAGS: meteor observation, radar meteor observation, meteor trail, resonance scattering

ABSTRACT: The author investigates the influence of resonance phenomena that can take place in meteor trails of the unstable type on the number of registered meteors. It is shown that the resonance effects increases the number of observed meteors by several times ten per cent. and the effect is stronger when the sensitivity of the apparatus is lower and when the distances to the meteor trails are larger. [Translation of abstract]

SUB CODE: 03

Cord 1/10dd

NEMIROVA, Ye.; RAKOVSKAYA, N.

Fires of a Kaluga pine forest. Zdorov'e 8 no.8:16-17 Ag '62.

(MIRA 15:8)

(KALUGA--CHILDREN--HOSPITALS)

NEMIROVICH-DANCHENKO, M.M.; MURZINA, A.I.

Fractional composition of antiencephalitic horse serum.
Trudy TomNIIVS 14:242-244 '63. (MIRA 17:7)

1. Tomskiy nauchno-issledovatel'skiy institut vaktsin i
syvorotok.

NEMIROVICH-DANCHEVSKO, C. R.

"The Chemotherapeutic Properties of Synthomycin and Certain Other Antibiotics During Experimental Infections Produced by Microbial Associations." Cand Biol Sci, All-Union Sci Res Chemicopharmaceutical Inst imeni Sergo Ordzhonikidze, Ministry of Health, 9 Dec 54. (Vn, 30 Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SC: Sum. No. 521, 1 Jun 55

USSR/General Problems of Pathology. Immunity

U-1

Abs Jour : Ref Zhur - Biol., No 13, 1958, No 60961

Author : Klemparskaya N.N., Sosova V.F., Nemirovich-Danchenko O.R.,
L'vitsina G.M.

Inst : -

Title : The Effect of an Active Immunization Against Intestinal In-
fections and Tuberculosis on the Resistance of Animals to
Radio [Radium?].

Orig Pub : Med. radiologiya, 1957, 2, No 5, 65-72

Abstract : A study was made of a preliminary one stage immunization of
mice by tetra-vaccine or by the BTsZh vaccine, on the course
of radiation sickness caused by an irradiation of Roentgen
Rays of 400 ch. or by the introduction of polonium (0.1
microcurie per kilogram). An immunization of this type, es-
pecially when made 2 weeks prior to exposure to Roentgen Rays,
increases the animals chances of survival (irradiation) or
increases their life span (polonium). A preliminary vaccination,
made 4 times on rabbits who had received formalin treated

Card : 1/2

NEMIROVICH-DANCHENKO, O.R.

Studies on certain indicators of natural immunity on dogs following
polonium injury in complex therapy. Report No.1: Studies on intestinal
microflora. Zhur. mikrobiol. epid. i immun. 29 no.11:82-90 N '58.

(POLONIUM, effects, (MIRA 12:1)

on intestinal microbiol. in dogs (Rus))

(INTESTINES, microbiology,

eff. of polonium in dogs (Rus))

NEMIROVICH-DANCHENKO, O.R.

Studies on certain indicators of natural immunity in dogs during compound therapy for polonium poisoning. Report No.2: Bactericidal properties of the skin and bacteriostatic activity of the intestinal contents. Zhur.mikrobiol.epid. i imun. 30 no.1:14-18 Ja '58.
(MIRA 12:3)

(IMMUNITY,

eff. of polonium pois. on natural bact. immun.
in dogs (Rus))

(POLONIUM, tox.

eff. on natural bact. immun. in dogs (Rus))

SV/16-99-6-4/86

17 (10, 12)

SYNOPSIS:

Klimashvili, M.M., Sosova, V.P., Alakayeva, O.O., Petrov, R.V.,

Klimashvili, G.A. and Mestrovich-Danchenko, O.A.

TITLE:

A Study of Some Aspects of the Action of Antibiotics on Radiation

Sickness

PERIODICAL:

Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1959, No. 6,
pp 26-34 (USSR)

ABSTRACT:

The article was presented at a conference in the Central USSR Scientific Institute of Radiobiology and Radiological Research Institute of the Ministry of Public Health, USSR) in Leningrad on November 29, 1957. It is a synthesis of articles by various authors on the effects of antibiotics on the microflora of the body after irradiation and certain factors of the body's reactivity. Sosova studied the effects of streptomycin, bioglycin and penicillin on the development of infection in inflammation in rabbits irradiated with 600-1,100 R. Petrov and Klimashvili studied the effects of per os administration of antibiotics on the development of infection in the colon of mice irradiated with 600 R of X-rays. Mestrovich-Danchenko studied

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the properties of microflora extracted by dogs treated with polonium. Alakayeva confirmed the antibiotic-resistance of commensal microflora in dogs which received per os slow-radioactive Strontium -90 but were not treated with antibiotics. U.O. Gerasimov, M.M. Yegorova, Z.V. Terent'yeva, V.Ye. Rudzyarskaya and O.P. Rudner have noted the great effects of antibiotics on many physiological processes and immunobiological activity. Alakayeva studied the intensity of the macrophage action of blood leukocytes in dogs irradiated with 600 R of X-rays, of whom some were given antibiotics. Klimashvili, M.M. Yegorova, Z.V. Terent'yeva, V.Ye. Rudzyarskaya, M.I. Milovskiy, M.M. Planel'ye and V. Chumachenko have studied the effects of antibiotics on immunity with contradictory results. O.A. Klimashvili has studied their effect on allergy. R.V. Petrov and L.I. Il'in have investigated the possibilities of forming complex antigen (allergen) groups by combining antibiotics with substances from the tissues of the living organism. From the above results a number of conclusions may be drawn. The introduction of antibiotics into animals, irradiated with lethal X-ray doses before infection, helps to prevent the development of inflammatory infection. Resistant microbe strains in the irradiated body tend to react to antibiotic by increasing in virulence; their number in the tissues and

Card 2/3

body surfaces also increase. The commensal bacteria in the intestines of an irradiated body show an increased resistance to antibiotics, without antibiotic having been used, simply due to the influence of changed environmental conditions. The introduction of antibiotics may provoke metastasis and thus diminish the effectiveness of the phagocytosis reaction. Antibiotics tend to inhibit the development of anaplasia to heterogenic proteins. Antibiotics may themselves be allergens as a result of their combination with body substances.

There are 3 photos, 6 figures, 1 graph, 1 table and 15 references, 11 of which are Soviet and 1 English.

SUBMITTED:

December 27, 1957

Card 3/3

NEMIROVICH-DANCHENKO, O.R.

Effect of small doses of polonium on the intestinal microflora
and some indices of natural immunity in dogs. Report No.3:
Zhur. mikrobiol., epid. i immun. 33 no.2:56-62 F '62. (MIRA 15:3)
(INTESTINES---MICROBIOLOGY)
(POLONIUM---PHYSIOLOGICAL EFFECT)
(IMMUNITY)

NEMIROVICH-DANCHENKO, Ye.N.

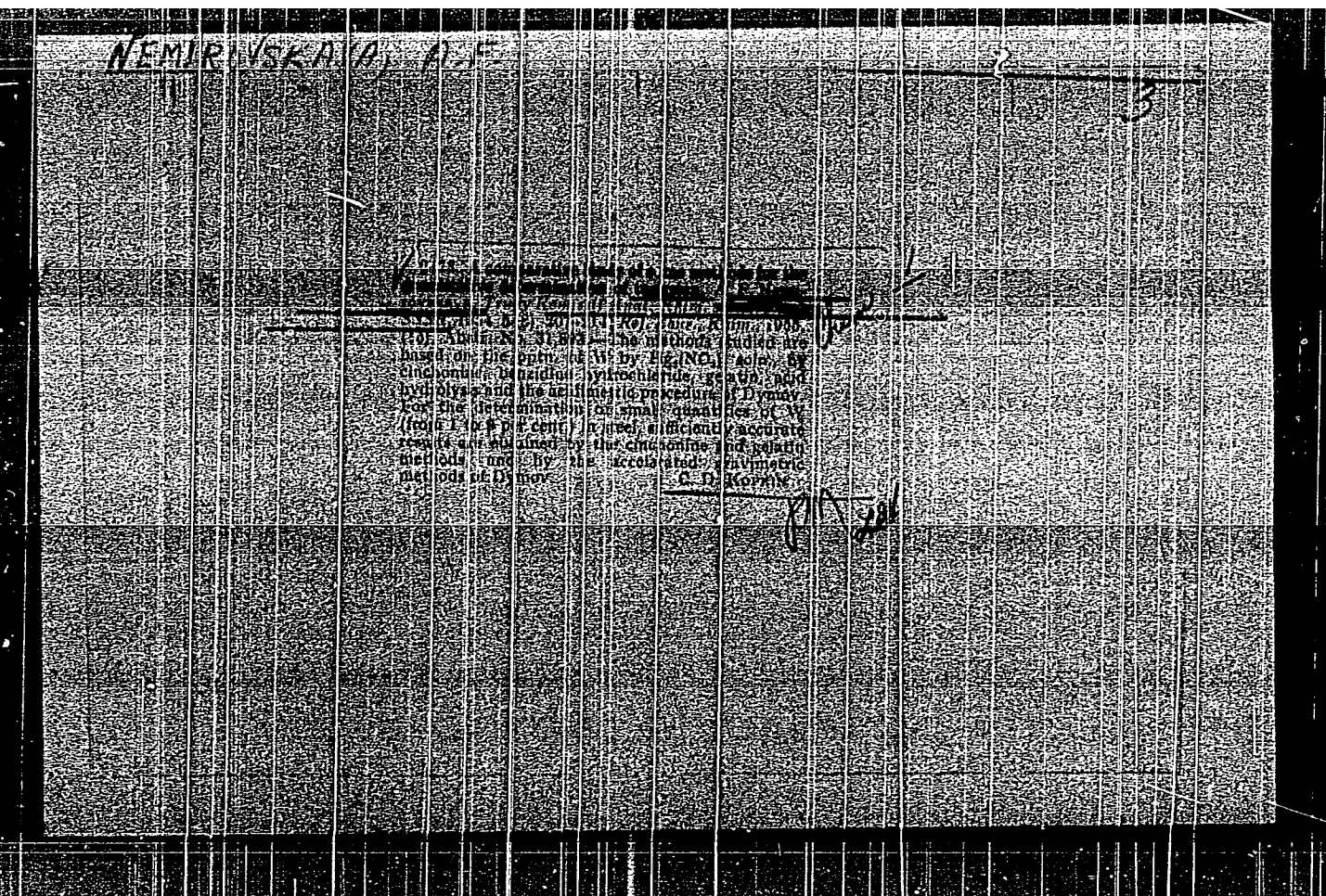
Morphological and systematical study of some nectaries of the family Cucurbitaceae. Izv. SO AN SSSR no.8.Ser.biol.-med.nauk no.2:17-22 '65.
(MIRA 18:9)

1. Tomskiy gosudarstvennyy universitet.

NEI IROVCHEN, A. P.

Dissertation: "Comparison of some methods of quantitative determination of sulfonamide of New Colorimetric Methods Using Methyl Violet." Dni Tech Sci, Novocherkassk Polytechnic Inst, Novocherkassk, 1954. Referativnyi zhurnal—Zhurnal, Moscow, 1954, Apr 54.

CC: LUB 284, 26 Nov 1954



NEMLIROUSKAYA, A. F.

199. The colorimetric determination of iron in steel with methyl violet. A. F. Nemirovskaya and V. I. Petukhova. *Neorg. Khim.* 1957, 2, 237-243. *Russ. Chem. Revs.* 1958, 28, 237-243. *Repts. Zhur. Khim. Akad. Nauk SSSR* No. 2, 1957. The colorimetric method consists in making a visual comparison with two standards or with a special series of standards. Neutralise the solution of steel in a tube to phenolphthalein with HCl and add water to a definite volume. Then add 0.1 ml of 0.5 N HCl, followed, after 10 min. by 1.2 ml of a 0.1% solution of methyl violet. Mix and compare the colour with a series of standards. With this method it is possible to determine 1 to 30 μ g of W per ml in 20 to 25 min. It is established that, of the other ions present, Mo^{6+} , P^{5+} , V^{5+} and SO_4^{2-} give the most interference.

C. D. KOPKIN

[illegible]

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11/1/28

NEMIROVSKAYA, A.F.

Determination of lead ions with quinalizarin. Trudy NFI 143:
45-53 '63. (MIRA 17:8)

NEMIROVSKAYA, A.F.; KREMERCHIK, I.N.; YASHINA, N.I.

Determination of tungsten and molybdenum present together.
Trudy NPI 143:55-62 '63. (MIRA 17:8)

NEMIROVSKAYA, A.I.

Effect of non-specific immunisation on the course of malarial infection and efficacy of chemotherapy (tested in avian malaria). Med.paras.i paraz.bol. no.5:424-426 S-0 '53. (MLRA 6:12)

1. Iz kafedry malyuriologii Tsentral'nogo instituta usovershenstvovaniya vrachev (direktor Instituta - professor V.P.Lebedev, zaveduyushchiy kafedroy professor Sh.D.Moshtkovskiy). (Malarial fever)

ALYMOV, A.Ya., prof.; GUSLITS, S.V., dotsent; YELKIN, I.I., prof.;
ZHDANOV, V.M., prof.; NEMIROVSKAYA, A.I., kand.med.nauk;
STEPANOV, I.R., dotsent; BELIKOV, P.F., red.; BEL'CHIKOVA,
Yu.S., tekhn.red.

[Course in epidemiology] Kurs epidemiologii. Pod red.
I.I.Elkins. Moskva, Gos.izd-vo med.lit-ry Medgiz, 1958.
431 p. (MIRA 13:1)

(EPIDEMIOLOGY)

GORDON, Ye.I.; NEMIROVSKAYA, A.I.; PAVLOVA, Ye.A.

Persomnel training in the Department of Medical Parasitology of
the Central Institute of Postgraduate Training for Physicians.
Med.paraz.i paraz.bol. 29 no.4:466-474 J1-Ag '60.

(MIRA 13:11)

1. Iz kafedry meditsinskoy parazitologii (zav. - prof. Sh.D.
Moshkovskiy) Tsentral'nogo instituta usovershenstvovaniya
vrachey (dir. M.D. Kovrigina).

(MEDICAL PARASITOLOGY.—STUDY AND TEACHING)

NEMIROVSKAYA, A.I.

Malaria and sickle-shaped anomaly of erythrocytes. Med. paraz. i
paras. bol. 29 no. 4: 474-481 J1-A4 '60. (MIRA 13:11)

1. Iz kafedry meditsinskoy parazitologii (zav. - prof. Sh.D.
Moshkovskiy) i tsentral'nogo instituta usovershenstvovaniya
vrachey.
(MALARIA) (ANEMIA) (ERYTHROCYTES)

NEMIROVSKAYA, A.I.; PAVLOVA, Ye.A.; STEPENKO, A.S.; GLUSHKOVA, M.R.

Detection of Plasmodium ovale in Moscow in persons infected in
West Africa. Med. parazit. i parazit. bol. 34 no.1:83-91 Ja-F '65.
(MIRA 18:8)

I. Kafedra meditsinskoj parazitologii TSentral'nogo Instituta us-
vershenstvovaniya vrachey i parazitologicheskij otdel Gorodskoy
sanitarno-epidemiologicheskoy stantsii, Moskva.

PAVLOVA, Ye.A.; NEMIROVSKAYA, A.I.

Training of personnel in the Department of Medical parasitology
of the Central Institute for Advanced Training of Physicians.
Med. paraz. i paraz. bol. 34 no.6:737-747 Nov '68.

1. Kafedra meditsinskoy parazitologii Tsentral'nogo instituta
usov. razrabatovaniya vrachey, Moskva. Submitted 11/11/65.

NESTROVSKAYA, A. V.

"The Biological Character of the zoological fauna of the Vozhzhitsa River
Flooded Meadows of the Vozhzhitsa River." *Trudy Vsesoyuznogo Nauchnogo
Tsentra, No. 1, Jan 51*

Summary of Scientific Works of the Vozhzhitsa River Fauna of the Vozhzhitsa
Educational Institutions (1951-1952), No. 1, 1952

NEMIROVSKAYA, B.M., Cand Med Sci -- (diss) "Study of the
action of antibiotics of the tetracycline series on
whooping-cough infection." Mos, 1968, 15 p. (Min of Health
USSR. Central Inst for the Advanced Training of Physicians)
200 copies (KL, 50-58, 130)

- 13b -

FADEYEVA, L.L.; BAKHAROV, T.M.; SEMIROV, A.M.

Study of interference properties. Vysokomol. Soedin. 1963, 137-163.

HEMIROVSKAYA, B.M.

Effect on whooping course of antibiotics of the tetracycline series administered orally and intramuscularly [with summary in English] Antibiotiki 3 no.4:79-82 J1-Ag '58 (MIRA 11:10)

1. Kafedra mikrobiologii (zav. - chlen-korrespondent AMN SSSR prof. Z.V. Yermol'yeva) Tsentral'nogo instituta usovershenstvovaniya vrachey.

(TETRACYCLINE)
(WHOOING COUGH)

NEMIROVSKAYA, B.M.

Histological study of the effectiveness of antibiotics of the tetracycline series in experimental pertussis infection. Antibiotiki, 4 no.2:97-100 Mr-Apr '59. (MIRA 12:7)

1. Kafedra mikrobiologii (zav. - chlen-korrespondent AMN SSSR prof. Z.V. Yermol'yeva) Tsentral'nogo instituta usovershenstvovaniya vrachey. (WHOOPING COUGH, exper. eff. of tetracycline, histol. studies in mice (Rus))
(TETRACYCLINE, eff. on whooping cough, histol. studies in mice (Rus))

YERMOL'YEVA, Z.V.; SUKHAREVA, M.Ye.; NEMIROVSKAYA, B.M.

Intramuscular injections of chlortetracycline with ecmoline and oral administration of tetracycline tablets in treating influenza and its complications in children. Antibiotiki 4 no.3:94-98 My-Je '59. (MIRA 12:9)

1. Kafedra mikrobiologii (zav. - chlen-korrespondent AMN SSSR prof.Z.V.Yermol'yeva) i kafedra pediatrii (zav. - deystvitel'nyy chlen AMN SSSR prof.G.N.Speranskiy) Tsentral'nogo instituta usovershenstvovaniya vrachey.

(FISH LIVER OIL, ther. use,
ecmoline in influenza in child., intramusc.
inject. with chlortetracycline & oral admin.
of tetracycline (Rus))

(CHLORTETRACYCLINE, ther. use,
influenza in child., intramusc. inject. with
ecmoline & oral admin. of tetracycline (Rus))

(TETRACYCLINE, ther. use,
influenza in child., oral admin. with intramusc.
inject. of ecmoline chlortetracycline (Rus))

(INFLUENZA, in inf. & child.,
ther., oral tetracycline with intramusc.
inject. of ecmoline-chlortetracycline (Rus))

NEMIROVSKAYA, B.M.

Studies on the sensitivity of *Haemophilus pertussis* to antibiotics of the tetracycline series and to streptomycin. Antibiotiki 4 no.5: 49-51 S-O '59. (MIRA 13:2)

1. Kafedra mikrobiologii (zav. - chlen-korrespondent AMN SSSR prof. Z.V. Yermol'yeva) Tsentral'nogo instituta usovershenstvovaniya vrachey.

(TETRACYCLINE pharmacol.)

(STREPTOMYCIN pharmacol.)

(BORDETELLA PERTUSSIS pharmacol.)

NEMIROVSKAYA, B.M.

Studies on the effect of chlortetracycline in combination with
whooping cough vaccine on experimental whooping cough infection.
Zhur. mikrobiol. epid. i immun. 31 no. 5:15-19 My '60.

(MIRA 13:10)

1. Iz TSentral'nogo instituta usovershenstvovaniya vrachey.
(WHOOPING COUGH) (AUREOMYCIN)

NEMIROVSKAYA, B. M., BRADJA, A.I., YERMYLYEVA, Z.V., FADEYEVA, L. L. PA, S. D., TI.,
FUREN, N.I.

"Way of obtainign interferon and the study of i s influence upon respiratory
virus in experiment.

report submitted for the 1st Intl, Congress on repsiratory Tract Diseases of
Virus and Rickettsial Origin, Prague, Czech. 23-27 May 1961.

GERASIMENKO, L.I.; NEMIROVSKAYA, B.M.

Comparative study on the concentration of antibiotics of the tetracycline series in the blood serum of children after oral and intramuscular administration. Antibiotiki 6 no.2:186-189 F '61. (MIRA 14:5)

1. Infektsionnyy otdel Instituta pediatrii AMN SSSR (rukovoditel' - chlen-korrespondent AMN SSSR prof. A.I.Dobrokhotova), kafedra mikrobiologii Tsentral'nogo instituta usovershenstvovaniya vrachey (zav. - chlen-korrespondent AMN SSSR prof. Z.V.Yermol'yeva). (TETRACYCLINE)

YERMOL'YEVA, Z.V.; FURER, N.M.; BALEZINA, T.I.; FADEYEVA, L.L.; NEMIROVSKAYA,
B.M.

Antiviral preparation interferon. Antibiotiki 6 no.3:196-200 Mr
'61. (MIRA 14:5)

1. Laboratoriya novykh antibiotikov pri kafedre mikrobiologii
TSentral'nogo instituta usovershenstvovaniya vrachey i Institut
virusologii imeni D.I.Ivanovskogo AMN SSSR.
(VIRUSES) (DRUGS)

AFONINA, L.G.; NEMIROVSKAYA, B.M.

Use of intramuscular tetracycline injections and erythromycin tablets
for treating complicated influenza in children. Antibiotiki i novits:
1107-1111 D '61. (MIRA 15:2)

1. Infektsionnyy otdel (zav. - prof. S.D. Nosov) Instituta pediatrii,
kafedra mikrobiologii (zav. - chlen-korrespondent AMN SSSR, prof.
Z.V. Yermol'yeva) Tsentral'nogo instituta usovershenstvovaniya vrachev.
(TETRACYCLINE) (ERYTHROMYCIN) (INFLUENZA)

/
YERMOL'YEVA, Z.V.; FURER, N.M.; RAVICH, I.V.; MAVASHIN, S.M.; BRAUDE, A.I.;
FOMINA, I.P.; ZHUKOVSKAYA, N.A.; BALEZINA, T.I.; VED'MINA, Ye.A.;
GOLOSOVA, T.V.; NEMTSOVSKAYA, B.M.; TERENT'IEVA, T.G.

/ Experimental study and clinical use of lysozyme. Antibiotiki
8 no.1:39-45 Ja'63. (MIRA 16:6)
(LYSOZYME)

YERMOL'YEVA, Z.V.; FURER, N.M.; VAYSBERG, G.Ye.; NEMIROVSKAYA, B.M.; BRAUDE,
A.I.; FOMINA, I.P.; BALEZINA, T.I.; FADEYEVA, L.L.; TCHRYA, L.K.;
KORABEL'NIKOVA, N.I.

Acetoxane and interferon in virus infections. Trudy TSIU 68:145-149
#64. (MIRA 18:5)

FURER, N.M.; NEMIROVSKAYA, B.M.; KHANINA, L.A.; YERMOL'YEVA, Z.V.

Study of the antiviral effect of interferon in tissue culture
and in adenovirus keratoconjunctivitis. Trudy TSIU 80:98-101
'65. (MIRA 18:11)

YERMOL'YEVA, Z. V.; FURER, N. M.; VAYSBERG, G. Ye.; RAVICH, I. V.; NEMIROVSKAYA, B. V.

"New antibiotic preparations and other biologically active compounds of natural origin."

report submitted for Antibiotics Cong, Prague, 15-19 Jun 64.

Dept of Microbiology & Lab of New Antibiotics, Cent Inst for Post-Graduate Training, Moscow.

L 26092-66 EWP(j)/EWI(m)/ETC(m)-6/T IJP(c) RM/MW

ACC NR: AP6015045

SOURCE CODE: UR/0190/66/008/005/0634/0808 2/

AUTHOR: Rusanov, A. L.; Korshak, V. V.; Kravtsov, Ye. S.; Nemirovskaya, I. B. 20 B

ORG: Institute of Heteroorganic Compounds AN SSSR (Institut elementoorganicheskikh soedineniy AN SSSR)

TITLE: Synthesis and investigation of poly-1,3,4-oxadiazoles 1

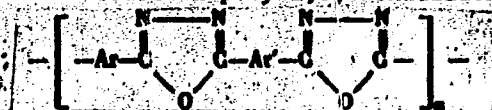
SOURCE: Vysokomolekulyarnyye soedineniya, v. 8, no. 5, 1966, 804-808

TOPIC TAGS: polyoxadiazole synthesis, polyoxadiazole property, heat resistant polymer

ABSTRACT: Fourteen high-molecular-weight polyhydrazides of the general formula



have been prepared by low-temperature solution polycondensation of dihydrazides and dichlorides of aromatic dicarboxylic acids in hexamethylformamide. The polyhydrazides had softening points of 280--400C. Cyclodehydration of the polyhydrazides at 250--320C in vacuum yielded fourteen poly-1,3,4-oxadiazoles of the general formula



Cord 1/2

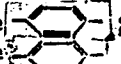
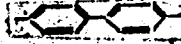
UDC: 541.64+678.6

L 26092-66

ACC NR: AP6015045



Fig. 1. Thermomechanical curves of two poly-1,3,5-oxadiazoles

1 - Ar and Ar' in Formula (B) are 
2 - Ar and Ar' in Formula (B) are , respectively.

The polyoxadiazoles had a softening point above 400C and were soluble without decomposition in concentrated sulfuric acid. Thermomechanical curves of the two most heat-resistant polyoxazoles synthesized are given in Fig. 1. Orig. art. has: 2 figures and 1 table. [B0]

SUB CODE: 07, 11/ SUBM DATE: 03Apr65/ ORIG REF: 003/ OTH REF: 005/ ATD PRESS:

4253

Card 2/2 CL

FUKS, I.M.; VALEYEVA, F.N.; POPKOVA, F.V.; VOLKOVA, L.P.; BELOGOLOVSKAYA, T.A.;
ROMASHKEVICH, I.K.; Prinimali uchastiye: MOROZOVA, L.M.; DASHEVSKAYA,
S.I.; VAKHMINA, L.S.; KARAVAYEVA, G.V.; IVANOVSKIY, A.K.; ZHUKHINA,
G.Ye.; SOLOV'YEVA, G.M.; ANDRIYANOVA, M.V.; AKHMETOVA, V.M.;
NEMIROVSKAYA, M.Ye.; MUSORINA, L.S.; KALASHNIKOVA, Ye.I.; PESHKO,
A.P.; IVANOVA, N.V.; ALKESEYEVA, N.I.; SADOVNIKOVA, G.N.

Study on the possibility of reducing the diphtheria vaccine dose in
revaccination of 9 to 12 year-old schoolchildren. Zhur. mikrobiol.,
epid. i immun. 41 no.11:103-107 '65. (MIRA 14:5)

1. Ufimskiy institut vaktsin i syporotok imeni Mechnikova.

RZHEZNIKOV, M.S.; NEMIROVSKAYA, N.A.

Problem of prostatic sarcoma. Urologia 24 no.3:57-58 My-Je '59.
(MIRA 12:12)

1. Iz bol'nitsy No.29 im. Baumana, Moskva.
(PROSTATE, neoplasms,
sarcoma (Rus))
(SARCOMA, case reports,
prostate (Rus))

NEMIROVSKAYA, N. A. (Moskva)

Rare case of anomaly of development of the blood vessels (aneurysms of the renal arteries and stricture of the abdominal aorta). Arkh. pat. no.7:80-82 '61. (MIRA 15:4)

1. Iz patologoanatomicheskogo otdeleniya (konsul'tant R. D. Shtern) Bol'nitsy No. 29 imeni N. E. Bauman (glavnyy vrach - zasluzhennyy vrach RSFSR N. G. Orlov)

(RENAL ARTERY ANEURYSMS)
(ABDOMINAL AORTA--ABNORMALITIES AND DEFORMITIES)

LIKHACHEV, Yu.P.; NEMIROVSKAYA, N.A. (Moskva)

Lesions of the spinal cord in radiotherapy. Med. rad. 8 no.4:
27-33 Ap*63 (MIRA 17:2)

1. Iz patologoanatomicheskogo otdeleniya (nachal'nik R.D. Shtern)
Glavnogo voyennogo gosspitalya imeni N.N.Burdenke i patologoana-
tomicheskogo otdeleniya (zav. - A.P.Serenko) gorodskoy bol'-
nitsy No.29 imeni Baumana, Moskva.

NEMIROVSKAYA, N.A.; ATAKOVA, Ye.Ye. (Moskva)

Changes in the liver in Osler's disease. Arkh. pat. 27 no.2:78-82
'65. (MIRA 18:5)

1. Patologoanatomicheskoye (konsul'tant - kand.med.nauk R.D. Shtern) i terapevticheskoye (zav. Ye.Ye. Atakova) otdeleniya Moskovskoy porodskoy klinicheskoy bol'nitsy No.29 imeni N.E. Bauman (glavnyy vrach - kand.med.nauk N.G.Orlov).

NEMIROVSKAYA, N.A. (Moskva)

Unusual case of a multiple mesenchymal tumor of diverse structure
in the retroperitoneal space. Arkh. pat. 27 no.4:74-77 '65.

(MIRA 18:5)

1. Patologoanatomicheskoye otdeleniye Moskovskoy gorodskoy
klinicheskoy polikliniki No.29 imeni N.S. Baumana (glavnyy vrach --
kand.med.nauk N.G. ...).

NEMIROVSKAYA, O. I.

PA 13/49T101

USSR/Medicine - Blood

Feb 48

Medicine - Sulfanilamide and
Sulfanilamide Derivatives

"Action of Sulfonamide on the Carboanhydration of the
Blood," O. I. Nemirovskaya, Assoc, 3½ pp

"Vop Ped 1 Okhran Mater 1 Det" Vol XVI, No 2

Reports observations of 1½ - 12 year old children.
Concludes that even such a pure sulfonamide
preparation as sulfadiazine affects carboanhydrase.

13/49T101

MEMIROVSKAYA, O.I. (Voronesh, ul. Fr.Engel'sa, d.40B)

Cytological examination in diagnosis of skin cancer. Vop.onk. 2 no.4:
480-483 '56. (MIRA 9:12)

1. Iz Voroneshskogo rentgeno-radiologicheskogo i onkologicheskogo
instituta (dir. kandidat meditsinskikh nauk M.P.Abakumov)
(SKIN NEOPLASMS, diagnosis,
cytol. (Rus))

GEFTER, V.A.; NEMIROVSKAYA, O.I.

Gongylonemiasis in man. Med. paraz. i paraz. bol. 34 no.2:152-
163 Mr-Apr '65. (MIRA 18:11)

1. Kafedra meditsinskoy parazitologii TSentral'nogo instituta
usovershenstvovaniya vrachev, Moskva, i Klinicheskaya labora-
toriya khozyaystvenno-raschetnoy polikliniki Voronezha.

YUR'YEVSKIY, S.G., prof., VASILOV, S.I., dots. TABATOROVICH, A.K., assistant.
NEMIROVSKAYA, S.A., assistant.

Florescence analysis in obstetrical practice [with summary in English]
Akush. i gin. 34 no.5:80-85 S-0 '58 (MIRA 11:10)

1. Iz Chitinskogo meditsinskogo instituta (dir. - dots. Yu.D. Ryzhkov).
(PREGNANCY, urine in
luminescent analysis (Rus))

HEMIROVSKAYA, S.A.; MALAKHOVA, K.V.

Combination of pregnancy and cardiovascular diseases. Vop.okh.mat.
1 det. 4 no.6:89 N-D '59. (MIRA 13:4)

1. Iz Chitinskogo meditsinskogo instituta.
(PREGNANCY) (CARDIOVASCULAR SYSTEM--DISEASES)

N EMIROVSKAYA, S. A.

21(1,8); 24(5)	PHASE I BOOK EXPLOITATION	507/3369
	Vsesoyuznaya mashinostroyaniya konferentsiya po kvantovoy teorii polya i teorii elementarnykh chastits. Uzhgorod, 1958	
	Problemy sovremennoy teorii elementarnykh chastits. No. 2: Trudy konferentsii... 2. Problems in the Modern Theory of Elementary Particles. No. 2. Transactions of the All-Union Inter-Vus Conference on the Quantum Field Theory and the Theory of Elementary Particles. Uzhgorod, Zakarpatskoye oblastnoye izd-vo, 1959. 211 p. 5,000 copies printed.	
	21. Yu. Losadaev, Docent; Tech. Ed.: M. Belous.	
	PREFACE: This book is intended for physicists, particularly those concerned with problems in the field of elementary particles and the quantum theory.	
	CONTENTS: This book contains articles on elementary particles originally read at the All-Union Inter-Vus Conference held at Uzhgorod State University on October 26, 1958. Among the topics discussed are: the spinor field theory, the fusion theory, Lorentz contraction, parity studies, nucleon-nucleon scattering, etc. English abstracts accompany each article. References follow each article.	
	Sokolik, G.A. New Formulation of Fusion Theory	26
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	Sokolik, G.A. Generalization of the Lorentz Group	37
	Yanitskaya, O.S. Generalized Equivalent Potential and the Sequence of Infinitesimal Lorentz Contractions Under Rotary Motion	44
	Sokolik, G.A. Representation of the Complete Lorentz Group	52
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	Geshkenbeyn, B.V., S.A. Emlitskaya, and A.P. Rudik. Non-Conservation of Parity in $\pi\pi$	58
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	Losadaev, Yu.M. The Possible Versions of the β^- -- Decay Theory	69
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	Sokolik, G.A. Conservation of the Combined Parity, as a Fundamental Law of the Symmetry in Nature	83
	Geshkenbeyn, B.V. Polarization of Electrons of the Inner Conversion Subsequent to β^- -- Decay, Taking Into Account the Electric Field of the Nucleus	89
	Ritenko, A.G. Polarization of the Nucleons Under the Stripping Reaction in the High Energy Region	99
	Tytlene, Kh. Wave Equations for Elementary Particles	109
	Buravskoy, V.S. and B.M. Burdakov. Some Remarks on the Inner Structure of the Nucleon	117
	Sokolov, V.D. On the Superfluid State of an Atom Nucleus	126

NE MIROUSKAYA, S.A.

21(4)	PHASE I BOOK EXPLOITATION	30V/2583
	International Conference on the Peaceful Uses of Atomic Energy.	
	2nd, Geneva, 1958.	
	Безопасность человечества; ядерные реакторы и ядерная энергетика. (Reports of Soviet Scientists; Nuclear Reactors and Nuclear Energy). Moscow, Atomizdat, 1959. 707 p. (Series: Itogi Nauki, vol. 2) Errata slip inserted. 8,000 copies printed.	
	General Eds.: M.A. Dollechal, Corresponding Member, USSR Academy of Sciences, A.E. Kravits, Doctor of Physical and Mathematical Sciences, A.I. Lysenashvili, Member, Ukrainian SSR Academy of Sciences, I.I. Merilav, Corresponding Member, USSR Academy of Sciences, and V.S. Serov, Doctor of Physical and Mathematical Sciences, Ed.: A.P. Alysh'ev, Tech. Ed.: Ye. I. Masel'.	
	Annotation: This book is intended for scientists and engineers engaged in reactor designing, as well as for professors and students of higher technical schools where reactor design is taught.	
	Summary: This issue named volume of a six-volume collection on the peaceful use of atomic energy. The collection contains the reports presented by Soviet scientists at the Second International Conference on Peaceful Uses of Atomic Energy held from September 1 to 13, 1958 in Geneva. Volume 2 consists of three parts. The first is devoted to atomic power plants under construction in the Soviet Union; the second to experimental and research reactors; the third, which is predominantly theoretical, to problems of nuclear reactor physics and construction engineering. Yu. I. Mirovskaya is the Science editor of this volume. See 30V/2581 for titles of all volumes of the set. References appear at the end of the articles.	
	Gidberg, V.I., V.S. Dinniev, M.B. Yegizarov, and Yu. S. Saltykov. Measuring Neutron Spectra in Uranium Water Lattices (Report No. 2138)	546
	Brasia, A.E., B.G. Dubovskiy, M.M. Lentoov, Yu.Yu. Glazkov, E.K. Gosharov, A.V. Kuznetsov, L.A. Gerasimov, V.V. Vasilov, Ye. I. Dvaytin, and A.P. Sanchenkov. Studying the Physical Characteristics of a Beryllium-moderator Reactor (Report No. 2139)	555
	Gel'man, A.D., A.A. Kozlovskaya, A.P. Rodik, Yu. G. Abov, V.P. Bolkin, and P.A. Kuchinskaya. Technical Experiment on an Experimental Heavy-water Reactor (Report No. 2036)	570
	Barabak, G.I., V. Ya. Pupko, Ye. I. Pogodalina, V.V. Smolov, I.P. Tyuterev, S.T. Platonova, and G.I. Druzhinina. Certain Problems in Nuclear Reactor Physics and Methods of Calculating Them (Report No. 2151)	588
	Slavutin, O.Y. and V.M. Semenov. Determination of Control Rod Effectiveness in a Cylindrical Reactor (Report No. 2469)	613
	Gel'fand, I.M., S.M. Feynberg, A.S. Frolor, and M.M. Chantsov. Using the Monte Carlo Method of Random Sampling for Solving the Kinetic Equation (Report No. 2141)	626
	Kaletin, M.I. Neutron Distribution in a Heterogeneous Medium (Report No. 2189)	634
	Kuznetsovskiy, M.Y., A.V. Stepanov, and P.I. Shapiro. Neutron Thermalization and Diffusion in Heavy Media (Report No. 2148)	651
	Yegorik, A.I., V.S. Yermakov, and A.V. Lykov. Using the Onager Theory for Studying Neutron Diffusion in the Absorbing Media of Nuclear Reactors (Report No. 2224)	668
	Smolov, G.L., S.A. Burdin, A.A. Butusov, V.V. Levin, and V.V. Orlov. Studying the Spatial and Energy Distribution of Neutrons in Different Media (Report No. 2177)	674
	Butriyev, A.B. Boron Ionization Chambers for Work in Nuclear Reactors (Report No. 2084)	690
	Kleillin, V.A., and S.A. Ulybin. Experimental Determination of Specific Volume of Heavy Water in a Wide Temperature and Pressure Range (Report No. 2171)	696

21(8),24(5)

AUTHORS:

Geshkenbeyn, B. V.,
Nemirovskaya, S. A., Rudik, A. P.

SOV/56-36-2-26/63

TITLE:

The Polarization of the β -Electrons From RaE (Polyerizatsiya β -elektronov RaE)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959,
Vol 36, Nr 2, pp 517-525 (USSR)

ABSTRACT:

After the nonconservation of spatial parity had become known, the β -decay of RaE was investigated by several research scientists. Lewis (Lyuis)(Ref 1), Fujita (Fuzhita) et al. (Ref 2) also pointed out the possible nonconservation of time parity, and Alikhanov showed by experiment (Ref 3) that the longitudinal polarization of β -electrons from RaE deviates from v/c and that the degree of deviation characterizes the measure of the nonconservation of parity with respect to time. Also in the present paper the authors derive a formula for the longitudinal polarization of the β -electrons, viz. for S- and T- interaction as well as for V-A - interaction, basing upon the results of references 7 and 8. Numerical results are given by a number of tables. Thus, table 1 shows $\langle \sigma \rangle / (v/c)$ for

Card 1/3

The Polarization of the β -Electrons From RaE

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S- and T- interaction and table 2 shows the same for V-A at $r_0 = 1.17 \cdot 10^{-13}$. Tables 5 and 6 show $\langle \delta \rangle / (v/c)$ at

$F^2 = 6 \cdot 10^{-3}$ (V-A), figure 7 shows $\langle \delta \rangle / (v/c)$ for S- and T- interaction types for various F values. The experimental data relating to the magnitude of the polarization of the RaE β -electrons considerably restrict the region of a possible violation of time parity. VA-interaction type: In the case of nonconservation of time parity the measured extremal polarization excludes $F < 0$ at $F^2 = 6 \cdot 10^{-3}$ and $F^2 = 3 \cdot 10^{-3}$. For $F > 0$ experimental and theoretical results agree for

$x \approx 0.2 (F^2 = 6 \cdot 10^{-3})$ or $0.7 (F^2 = 3 \cdot 10^{-3})$.

ST-interaction type: At $F^2 = 6 \cdot 10^{-3}$ and $F^2 = 3 \cdot 10^{-3}$ $F < 0$ is excluded and at $F > 0$ agreement is found for any such F^2 values within the range of $x \approx 1.7$.

The authors finally thank Academician A. I. Alikhanov for

Card 2/3

The Polarization of the β -Electrons From RaE

SOV/56-36-2-26/63

suggesting this work and for his discussions, and they also thank B. L. Ioffe and V. A. Lyubimov for discussions. There are 9 tables and 12 references, 2 of which are Soviet.

SUBMITTED: July 24, 1958 (initially) and October 28, 1958 (after revision)

Card 3/3

NEMIROVSKAYA, S.A.

Blood transfusion complications in obstetrical practice. Akush.
i gin. 40 no.2:118-120 Mr-Apr '64.

(MIRA 17:11)

1. Kafedra akusherstva i ginekologii (zav. - dotsent B.V. Kushni-
rov) Chitinskogo meditsinskogo instituta.

MEYER, T. I.

Medicine - Blood, Examination
Medicine - Drugs, Effects

Sep/Oct 48

"Action of Sodium Salicylate, Pyramidon and Ascorbic Acid on the Carbon Anhydrase Activity of the Blood,"
S. I. Nemirovskaya, Chair of Faculty Pediatrics,
Voronezh Med Inst, 1 1/2 pp

"Vop Ped i Obshch Mater i Det" Vol XVI, No 5

Sodium salicylate and pyramidon have no noticeable effect on activity of carbonhydrase in vivo or in vitro. In some cases, activity of carbonhydrase was reduced by ascorbic acid. Compares latter phenomenon to effect obtained by Rafanov and Stepanyan using thiazine.

34/49799

LYUBALINSKAYA, Z.P.; NEMIROVSKAYA, V.N.; SHIROKOVA, Ye.V.

Methods for the lithogeochemical study of ancient geosynclinal formations,
Mat. po geol. i pol.iskop.Kras.kraia no.3:203-207 '62. (MIRA 17:2)

NEMIROVSKAYA, V.N.; KRUGLOVYKH, V.V.

Third coordinating conference on compiling lithopaleogeographical
maps of Siberia. Mat. po geol. i pol.iskop.Kras.kraia no.3:261-263
'62. (MIRA 17:2)

MUSATOV, D.I.; NEMIROVSKAYA, V.N.

Stratigraphic scheme of Cambrian sediments in the western part of
the Eastern Sayan Mountains (Kizir-Kazyr and Sisim synclinories).
Izv.vys.ucheb.zav.; geol. i razv. b no.5:12-18 My '63.

(MIRA 18:4)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

ZHUKOVA, A.D.; IVONIN, V.I.; KAPLAN, A.Yu.; NEMIROVSKAYA, Ye.G.; MIREN-
SKIY, B.R., redaktor; AYZENSHTAT, I.I., redaktor; ZALITSKINA, O.Ya.,
tekhnicheskiiy redaktor.

[Collection of standards and technical requirements for the varnish
and paint industry] Sbornik standartov i tekhnicheskikh uslovii na
produksiiu lakokrasochnoi promyshlennosti. Moskva, Gos. nauchno-
tekhn. izd-vo khim. lit-ry. No. 1. 1952, 516 p; No.2. 1952, 359 p;
No.3. 1952. 463 p. (MIRA 8:4)
(Varnish and varnishing—Specifications)
(Paint—Specifications)(Lacquer and lacquering—Specifications)

NEMIROVSKAYA, Ye. M.

SHCHIPAKINA, N.K.; NEMIROVSKAYA, Ye.M.; SENYAVIN, M.M.

Simultaneous chromatographic isolation of sodium and potassium in the analysis of glasses. Zhur. anal. khim. 12 no.1:70-77 Ja-F '57.

1. Institut geokhimii i analiticheskoy khimii im. V.I. Vernadskogo
AN SSSR i Elektrolampovyy zavod, Moskva.

(Glass)

(Chromatographic analysis)

AM1037196

BOOK EXPLOITATION

S/

Baysh, L. G.; Brusteyn, L. I.; Voskresenskiy, V. N.; Makulov, G. Z.;
Mirzabekov, G. G.; Nesmelov, S. V.; Nemirovskiy, A. B.; Pavlovskiy, A. N.;
Shondler, YU. I.

Devices for control of pressure, outlay and quantity of material, level, temperature. Secondary devices and multiple control machinery. v2 (Pribory* kontrolya davleniya, raskhoda i kolichestva veshchestva, urovnya, temperatury*. Vtorichnyye pribory* i mashiny* mnozhestvennogo kontrolya. Kn. 2), Moscow, "Nedra", 1964, 870 p. illus., biblio., index. Errata slip inserted. 5,300 copies printed.

TOPIC TAGS: pressure measurement, manometer, diffmanometer, flowmeter, level measurement, temperature measurement, thermocouple, thermal expansion, electrical resistance thermometer, current ratio measurement, electronic computer

TABLE OF CONTENTS [abridged]:

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AM:037196

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 - Ch. XV. Measuring flow by the method of a variable drop in pressure (L. G. Baysh) -- 225
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- Ch. XVI. Special instances of measuring flow by the method of a variable drop in pressure (L. G. Baysh) -- 241
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- Section IV Instruments for measuring and regulating temperature (V. N. Voskresenskiy and V. A. Nikitin)

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- Section VI Systems of control and regulation with high-speed electronic machines for centralized automatic control and regulation of engineering processes (G. Z. Makulov)
- Card 4/5

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Ch. XXXXII. Designation, operating principles, circuits, and classification of systems of control and regulation with electronic computers for centralized control and regulation of engineering processes -- 786

Ch. XXXXIII. Circuits and design of basic functional blocks of machines for centralized control and regulation -- 796

Ch. XXXXIV. Control-information and control-information computers -- 847

SUB CODE: EE, FP

SUBMITTED: 30Oct63

NR REF SOV: 045

OTHER: 007

DATE ACQ: 06Apr64

Card 5/5

1. NEMIROVSKIY, A. I., YERAM, I. O.
2. US R (600)
4. Paper Industry - Accounting
7. Method of calculating production of paper and pulp. Bum. prom. no. 1. 1951.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Uncl.

NEMIROVSKIY, A. I. - ERAM, I. O.

Paper Industry

Once again on the subject of accounting and calculating.
Bum. prom. 28 no. 3, 1953

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

NEMIROVSKIY, A. I.

GERTIK, M.S.; NEMIROVSKIY, A.I.

Cost accounting applied at the shop and brigade level. Sum.prom. 29
no.4:26-28 Ap '54. (NLRA 7:6)

1. Solikamskiy tsellyulozno-bumazhnyy kombinat.
(Paper industry--Cost accounting) (Cost accounting--Paper
industry)

NEMIROVSKIY, A.I.

Improvement of the methods for calculating production costs.
Bum.pron. 36 no.4:23-24 Ap '61. (MIRA 14:5)
(Paper industry—Costs)

NEMIROVSKIY, A.I.

Effect of greater output capacity of the papermaking machinery on
the reduction of production costs. Bum. prom. 36 no.7:25-26
J1 '61. (MIRA 14:9)

1. Permskiy sovnarkhoz. (Papermaking machinery)

NEMIROVSKIY, A.M.

Kalmakov, M. P.

First aid in cases of disease through chemical warfare Redaktor A. M. Nemirovskii. Moskva,
TSentr. in-t sanitarnogo prosveshchenia, 1943. (8) p.

NEMIROVSKIY, A.M.

Public Health

Proper utilization of visual aids in public health education. Med. sestra
no. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, September 1952 ~~1953~~, Uncl.

NEMIROVSKIY, Abram Markovich; SUROV, S., red.; YEGOROVA, I., tekhn.red.

[Ways of reducing expenditure of labor in machine operation] Puti
snizheniya trudoemkosti mashin. [Moskva] Mosk.rabochii, 1958.
55 p. (MIRA 11:7)

1. Rukovditel' gruppy tekhnicheskogo normirovaniya zavoda
"Kompessor" (for Nemirovskiy)
(Machinery industry) (Compressors)

ZELENIN, M.I.; TATARKINA, G.V.; SHIROKOVA, N.Ye.; NEMIROVSKIY, A.N.;
FEOFILOV, Ye.Ye.; OL'SHEVSKAYA, K.Ya.

Production of automobile gasoline. Khim. i tekhn. gor. slan.
i prod. ikh perer. no.8:75-83 '60. (MIRA 15:2)
(Gasoline)

GUREVICH, B.Ye.; NEMIROVSKIY, A.M.; YEFIMOV, V.A.; SHMAGIN, Ya.G.;
Prinimali uchastiye: Semenov, S.S., kand.tekhn.nauk; NIKOLAYEVA,
A.I., teknik

Production of oil shale diesel fuel. Khim. i tekhn. gor. slan.
i prod. ikh perer. no.8:84-101 '60. (MIRA 15:2)
(Diesel fuels)
(Oil shales)

1
MERKULOVA, O.P.; NEMIROVSKIY, A.N.; PREYS, M.O.; TEODOROVICH, V.P.

Some considerations on the corrosion of equipment of pressure distillation units used for processing shale tar. Khim. i tekhn. gor. slan. i prod. ikh perer. no.9:114-131 '60. (MIRA 15:6)
(Oil-shale industry--Equipment and supplies)
(Distillation apparatus--Corrosion)

TAQIUDIN, I.S.; NEMIROVSKY, A.S.

Producing city gas from Brazilian shale. Gaz. prom. 2 no. 5:
18-21 '63

HEMIROVSKIY, A.S., kand.tekhn.nauk

Errors in the position and motion of flat mechanisms. Vest.mash.
38 no.7:30-35 J1 '58. (MIRA 11:8)
(Mechanical movements)

NEMIROVSKIY, A.S.; MEL'KUMOV, T.M., otvetstvennyy red.

[Investigating globoid gearing] Issledovanie globoidnogo zatsepleniia.
Issd-vo TSIAM, 1947. 8 p. (Moscow. Tsentral'nyi nauchno-issledovatel'skiy
institut aviatsionnogo motorostroeniia. Trudy, no.134)
(Gearing) (MIRA 11:4)

1. NEMIROVSKIY, A. S.
2. USSR (600)
3. Woodworking Machinery
4. Design of protective casings for knife edges of woodworking machinery.
Vest. mash. No. 8 - 1952.

9. Monthly List of Russian Accessions, Library of Congress, February, 1953. Unclassified.

AID P - 5074

Subject : USSR/Engineering

Card 1/1 Pub. 128 - 3/26

Author : Nemirovskiy, A. S., Kand. Tech. Sci.

Title : ~~Design of conveyer sprocket wheels with omission of some teeth.~~

Periodical : Vest. mash., 5, 8-9, My 1956

Abstract : A method is presented for a quick and accurate determination of the pitch circle diameter of sprocket wheel with missing teeth. An example of calculations is given. Table, diagram.

Institution : None

Submitted : No date

NEMIROVSKIY, A.S.

AUTHOR: NEMIROVSKIY, A.S. PA - 3612
TITLE Relieving Pressure Brought to Bear upon the Sliding Guides of a Frame Saw. (Razgruzka napravlyayushchikh lezovoy, Russian)
PERIODICAL: Stanki i Instrument, 1957, Vol 28, Nr 6, pp 10 - 12 (U.S.S.R.)
ABSTRACT: The gliding guides of the frame of a frame saw are subjected to considerable pressure during operation, so that they wear quickly and must be frequently exchanged. It is therefore necessary to reduce the maximum pressure acting upon these guides. During operation, force is determined by the mass forces of the frame as well as by the cutting- and shearing force, and during freewheeling only by the mass force of the frame.

It is possible to arrange the crank-connecting rod mechanism of the frame saw "desaxially", so that the maximum stresses remain equal no matter whether the machine is in operation or freewheeling. Maximum stresses by cutting- and feeding power are partly balanced: in a fully balanced state a desaxial arrangement (like in the case of the frame saw P.D.75-2) is not necessary. The present paper describes a method which makes it possible to determine the maximum reduction of pressure acting upon the sliding guides. Detailed calculations are given. The author recommends the use of the above described device when constructing new frame saws, because wear of

Card 1/2

SOV/122-58-7-8/31

AUTHOR: Nemirovskiy, A.S., Candidate of Technical Sciences

TITLE: Position and Motion Errors of Plane Mechanisms
(Oshibki polozheniya i dvizheniya ploskikh mekhanizmov)

PERIODICAL: Vestnik Mashinstroyeniya, 1958, Nr 7, pp 30-35 (USSR)

ABSTRACT: It is stated that existing methods for the analysis of precision in mechanisms require additional evaluations beyond the normal kinematic analysis. All the methods enumerated among the references and briefly defined are based on the conception of the primary geometric errors. Consideration of the error in the cross-sections of the lower kinematic pairs is made more difficult owing to the frequent dependence of one pair upon another. A new method proposed by the author compares an exact with an inexact mechanism, element by element (links or kinematic pairs). The analysis is simplified by introducing the conception of the complex error which includes manufacturing and position errors. The geometry specifying errors in individual elements is explained. The paper introduces the conception of the equivalent error of an element in the mechanism which is composed of primary errors. In a link with a higher pair or a sliding pair element, the equivalent error has the direction either of the radius

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vector or the normal to the exact elements of the pair and is measured at their point of contact. Reference is made to N.A. Kalashnikov. (Dokl. v IMASH AN SSSR, 1940) whose report entitled "Foundation of the Theory of Real Engagements" contains methods for finding the equivalent error. In a link with hinge elements, the equivalent error is the centre distance between the fixing points of the kinematic pairs in the link. It is stated that the equivalent errors are taken as points of departure because the region of independence of their effects is wider than that of the primary errors. Equivalent errors include all ordinary positions of plane mechanisms, which permits taking into account the skewing of axes and errors in the shape of the cross-sections. The number of errors requiring consideration in a mechanism is greatly reduced. The complex error equals the difference between two complex numbers (or two vectors). The first number determines the magnitude and the position of the element of the inexact mechanism, the second determines the same in an exact mechanism. The complex error is a function of the size and position errors of the element of the mechanism and also a function of parameters which determine the position and motion of the

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exact mechanism. The latter are found by the ordinary kinematic analysis. The equations of the complex errors and the exact formulae of the errors of motion are stated. The expressions for the complex errors of a hinge and its derivative are given. The complex error and its derivatives are also examined for links with elements of a higher pair and of links with a straight line sliding pair. In an example, the error in the angular acceleration of the driven link of a plain four-bar hinged mechanism is derived as a function of the error in the length of the connecting rod when the remaining links have an exact length, the hinges are exact and an exact position of the driving link is given. In another example, the position errors in a hinged linkwork of the fourth class and second order (illustrated in Figure 4) are stated as functions of the length of one link when the remaining links and hinges are exact. There are 4 figures and 9 Soviet references.

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AUTHORS: Volkonskiy, V.A., Gol'dinov, M.A., Kessel'man, S.M.,
Nemirovskiy, A.S.

TITLE: The Analysis of Instrument Error Produced by Dis-
crete Action Integrators

PERIODICAL: Izmeritel'naya tekhnika, 1959, Nr 10, pp 4-6 (USSR)

ABSTRACT: An instrumental miscalculation of an integrator arises only when the φ_1 deflection angle of the output shaft of an integrator varies from cycle to cycle and the lever which introduces the element to be integrated remains in a fixed position. This variation is caused, for instance, by delayed switch-off-and-on of the counter in each integration cycle. The miscalculation represents the difference between φ_1 and the assembly average of the deflection angle φ_{oi}
 $\Delta\varphi_1 = \varphi_1 - \varphi_{oi}$ The corresponding miscalculation of the measured element for each integration cycle will be $\delta_u = K\Delta\varphi$ (1)

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where k is the proportional coefficient between the deflection angle and the measured element. The authors further describe an experimental evaluation method of an instrumental miscalculation and of the integration error derived from this miscalculation. The integration error corresponding to a time period $(0, T)$ will be

$$\Delta_u = \int_0^T \delta_u(t) dt \quad (2)$$

As the assembly average of an instrumental miscalculation $M\Delta_u = 0$, so the assembly average of integration error derived from this miscalculation $M\Delta_u$ is also 0. The variance of the integration error, derived from the formula (2) will be

$$D\Delta_u = \int_0^T \int_0^T R_u(t,s) dt ds$$

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where $R_u(\tau, s) = M [\mathcal{J}_u(t) \mathcal{J}_u(s)]$ - a correlation function of instrumental miscalculation. If we admit the stability and the ergodicity of the process then

$$D\Delta_u = \int_0^{T-t} \int_0^{T-t} R_u(\tau) d\tau d\tilde{\tau} \approx T \int_{-\infty}^{\infty} R_u(\tau) d\tau \quad (3)$$

where $R_u(\tau) = R_u(0, \tau)$. The expression of a correlation connection being

$$\tau_u = \frac{1}{D\mathcal{J}_u} \int_0^{\infty} R_u(\tau) d\tau \quad (4)$$

the (3) and (4) formulae give

$$D\Delta_u = 2T\tau_u D\mathcal{J}_u \quad (5)$$

Thus, to determine the variance of the integration error or $D\Delta_u$ we must know the variance of the instrumental miscalculation $D\mathcal{J}_u$ and the value τ_u . These values

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were determined experimentally for integrators produced by the Khar'kovskiy zavod (Kharkov Plant) "Kip" and by the "Manometr" Plant. A detailed description of this experiment is given. There are 3 graphs, 1 table and 1 Soviet reference.

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NEMIROVSKIY, A.S.: VOLKONSKIY, Viktor Aleksandrovich, nauchnyy red.;
KUZNETSOVA, M.I., red.isd-va; MATVEYEVA, A.Ye., tekhn.red.

[Integrators used in measuring instruments] Integratory izme-
ritel'nykh priborov. Moskva, Gos.isd-vo standartov, 1960.
231 p. (MIRA 13:12)

(Integrators)

HEMIROVSKIY, A.S.

Optimum transmission systems of measuring instruments operating
under dynamic conditions. Trudy VNIIT no.4:151-166 '60.

(MIRA 13:12)

(Measuring instruments)

HEMIROVSKIY, A.S.

Reproducing transmission systems of dynamically precise instruments.
Trudy VNIIE no.4:167-174 '60. (MIRA 13:12)
(Measuring instruments)

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AUTHORS: Nemirovskiy, A. S., and Volkovskiy, V. A.

TITLE: Selection of the number of points to be checked on the instrument scale

PERIODICAL: Izmeritel'naya tekhnika, no. 1, 1961, 5-10

TEXT: At present, the development of theoretical bases for the methods of instrument testing is of great concern. The authors present the solution of the problem concerning the selection of the optimum number of points to be checked on an instrument scale. It is assumed that this solution will be widely used in the development of the testing methods for a large number of instruments. The instruments are tested at some points of the scale. On the basis of the results obtained the authors determine the adequateness of the instrument for measuring quantities on the intermediate points of the scale. It is evident that the accuracy of such an evaluation is only low. Accuracy is the higher the smaller the distance between to neighboring points, i.e., the more points of the scale are checked. On the other hand, the number of the points to be checked should be reduced to improve the

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control efficacy. When testing the instrument errors occur which are a function of the instrument scale. As a result of every control errors which can be represented as a curve $x(t)$ (Fig. 1) where the scale values t are plotted on the abscissa and the errors x on the ordinate. The curves of direct checking do not coincide with the curves obtained in the opposite way. This is due to changes in the slit and the hysteresis. The curves of one check do not coincide with the curves of another due to the presence of random errors. For another instrument of the same type the error curves will differ from the curves of the first instrument since complete reproducibility is impossible. Hence, the totality of the random errors which is a set of arbitrary functions corresponds to the totality of a given type of instruments. In this case each random function corresponds to one instrument. The set of the random functions itself constitutes a random function. Hence, the error on the instrument scale is a random function of the scale which can be described by certain rules governing the distribution or by numerical characteristics, mathematical expectation, dispersion, correlative function. The least probability that an instrument is rejected is determined from formulas and the number of checked points of the scale. Conclusions: the solution described in this paper can be applied in these

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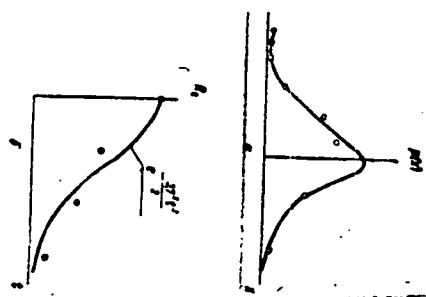
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cases where the type of the instrument is normalized by the maximum admissible error. The following assumption were made when solving this problem: an error exists in each point of the instrument scale. Hence, it is a function of its position on the instrument scale; the totality of such functions can be regarded as continuous random function with normal distributions and mathematical expectation being equal to zero. There are 2 figures, 1 title, and 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc.

Fig. 1



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E031/E435

AUTHORS: Nemirovskiy, A.S., Volkonskiy, V.A.

TITLE: The accuracy of indirect measurements involving
multiplication and numerical integration

PERIODICAL: Izmeritel'naya tekhnika, no.10, 1961, 1-7

TEXT: In this paper the methodical error in indirect measurements is investigated in the case when one of the variables is continuous and the other is discrete and both are stationary random functions of the time. The methodical error δQ depends on the character of the spectra of the processes and the time between two successive measurements. The error may be calculated from a knowledge of the dispersion of the error. The paper is mainly concerned with the evaluation of the integral for the dispersion over the plane defined by the variables λ and ω which are the spectral frequencies of the processes. There are 5 figures, 2 tables and 3 Soviet-bloc references.

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VOLKONSKIY, V. A.; NEMIROVSKIY, A. S.

Evaluating dynamic and integration errors of measuring instruments. Trudy inst. Kom. stand. ser 1 izm. prib. no. 57:47-67 '62. (MIRA 15:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut Komiteta standartov, ser 1 izmeritel'nykh priborov pri Sovete Ministrov SSSR.

(Measuring instruments)